CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/UR/W.No.3/CSR-05/335j/CEMENT/2017-18 Date: 15.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. U Ramesh,** No. 12, 4th Cross, Sunrise Colony, R.N. Nagara, Bangalore.
* Name of Work	:	Repairs to Samudaya Bhavana and providing WPC to Govt., School at Yelahanka 4th Phase in Attur, Ward No 3, Bangalore.
* Reference	:	EE/(YNK.D) E – PMT-07/W.O/41/2017-18 Dated: 09.05.2017
* Sample ID	:	Cement
Sample Received on	:	13.05.2017
Period of Testing	:	13.05.2017 to 15.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

AE W3

AE-01

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Job No.: CTCE/BBMP/UR/W.No.3/CSR-05/335j/SAND-Gradation/2017-18

15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. U Ramesh,** No. 12, 4th Cross, Sunrise Colony, R.N. Nagara, Bangalore.
* Name of Work	:	Repairs to Samudaya Bhavana and providing WPC to Govt., School at Yelahanka 4th Phase in Attur, Ward No 3, Bangalore.
* Reference	:	EE/(YNK.D) E – PMT-07/W.O/41/2017-18 Dated: 09.05.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	13.05.2017
Date of Testing	:	15.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	69.00	60-95	75-100	85-100	95-100
1.18	46.60	30-70	55-90	75-100	90-100
600 Micron	24.20	15-34	35-59	60-79	80-100
300 Micron	13.40	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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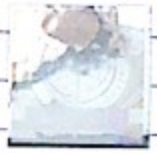
Job No.: CTCE/BBMP/UR/W.No.3/CSR-05/335j/AGG/GR/2017-18

15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. U Ramesh,** No. 12, 4th Cross, Sunrise Colony, R.N. Nagara, Bangalore.
* Name of Work	:	Repairs to Samudaya Bhavana and providing WPC to Govt., School at Yelahanka 4th Phase in Attur, Ward No 3, Bangalore.
* Reference	:	EE/(YNK.D) E – PMT-07/W.O/41/2017-18 Dated: 09.05.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	13.05.2017
Date of Testing	:	15.05.2017



Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.32	95-100	85-100
20	36.48	30-70	0-20
10	14.00	10-35	0-5
4.75	4.30	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/UR/W.No.3/Steel/2017-18 15.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. U Ramesh,** No. 12, 4th Cross, Sunrise Colony, R.N. Nagara, Bangalore.
* Name of work	:	Repairs to Samudaya Bhavana and providing WPC to Govt., School at Yelahanka 4th Phase in Attur, Ward No 3, Bangalore.
* Reference	:	EE/(YNK.D) E – PMT-07/W.O/41/2017-18 Dated: 09.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	15.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.35	O.K	O.K

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Job No.: CTCE/BBMP/UR/W.No.3/CSR-05/335jCC Solid Block/2017-18 15.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. U Ramesh,** No. 12, 4th Cross, Sunrise Colony, R.N. Nagara, Bangalore.
* Name of Work	:	Repairs to Samudaya Bhavana and providing WPC to Govt., School at Yelahanka 4th Phase in Attur, Ward No 3, Bangalore.
* Reference	:	EE/(YNK.D) E – PMT-07/W.O/41/2017-18 Dated: 09.05.2017
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	13.05.2017
Date of Testing	:	15.05.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.52	283.4	3.54	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.54	280.2	3.50	
3	Block 3	35.23	278.3	3.48	
4	Block 4	35.26	282.5	3.53	
5	Block 5	34.82	285.4	3.57	
6	Block 6	36.12	283.2	3.54	
7	Block 7	35.47	287.2	3.59	
8	Block 8	36.57	286.2	3.58	

*Information is furnished by the Customer/Representative.

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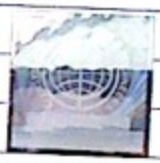
Job No.: CTCE/BBMP/UR/W.No.3/CSR-05/335j/Cube/2017-18

16.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. U Ramesh,** No. 12, 4th Cross, Sunrise Colony, R.N. Nagara, Bangalore.
* Name of the work	:	Repairs to Samudaya Bhavana and providing WPC to Govt., School at Yelahanka 4th Phase in Attur, Ward No 3, Bangalore.
* Reference	:	EE/(YNK.D) E – PMT-07/W.O/41/2017-18 Dated: 09.05.2017
* Sample ID	:	Cement Conctere
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.06.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.05.2017	16.06.2017	8.054	489.2	21.74
2	19.05.2017	16.06.2017	8.163	506.7	22.52
3	19.05.2017	16.06.2017	8.248	510.4	22.68

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